



# RP TECH SOLUTIONS

Instrumentation & Automation Engineering Consultant

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## INTRODUCTION

RP Tech Solutions is an innovative & integrated engineering solution provider with project time and cost management services in following business modules:

***Instrumentation & Automation Engineering Services for various industries.***

We have team of dedicated experienced Engineers, Designers & Intellectual property professionals.

We are distinct and distinguished in the engineering consulting services & in the application of innovative ideas leading to lifecycle asset.

We offer multi-disciplinary services in project engineering across several sectors.





## ENGINEERING CAPABILITIES

Basic & Detailed Engineering for:

- Oil & Gas
- Petrochemical
- Chemical Plant
- Steel Plant
- Power Industry
- Food & Pharmaceutical Industry

## PROCUREMENT SUPPORT

- Material Requisition
- Vendor Offer Review
- Technical Bid Evaluation
- Vendor Drawing & Document Review



## ENGINEERING SERVICES

- Basic & Detailed Engineering.
- Brown field and grass root engineering and design works.
- Man-power deputation for client engineering office.
- Package engineering and vendor co-ordination.
- Developing projects plans, engineering documents & schedules.
- Establishing budgets and time spans for the project completion
- Quality assurance for engineering deliverables.
- Site Visit, FAT, SAT, Inspection & Testing of Field Instruments & Control system.
- Experience in Brown Field and Grass root Site Engineering and Construction works.
- Developing construction documents & schedules.
- Preparation of project erection, pre-commissioning and commission test records documents.
- Project Erection, Pre-Commissioning & Commissioning.
- Technical Integrity Verification
- As built documentation.



- Support in Procurement activity,
- Review of Vendor documents
- Plant CCTV system specification for procurement
- Multi-discipline interfacing.

## TECHNICAL SKILL SUMMARY

### INSTRUMENTATION & AUTOMATION

- Preparation of Specifications for Various Field instruments, PLC, Control & Shutdown System for Procurement.
- Instrument Index & I/O list
- System Architecture for DCS, SIS, F&G and PLC/SCADA
- Preparation of Cause & Effect Diagram, Control Narrative
- Preparation of Field Instrument Datasheet, Material Requisition, Technical analysis of vendor offer
- Sizing and selection of the Field instruments
- Package vendor offer review and Technical Bid Evaluation.
- Cable schedule and Junction box schedule
- Instrument location plans, Control room Layout Drawings
- Cable tray and Junction box layouts
- Junction Box wiring diagrams, Control Panel wiring diagrams
- Instrument Loop schematic
- Instrument Hook-up & Installation Drawings
- Instrument Bill of Materials (MTO) / schedule of rates (SOR)
- PLC automation & LCP design, assembly, wiring & testing

## FAMILIAR WITH CODES & STANDARDS

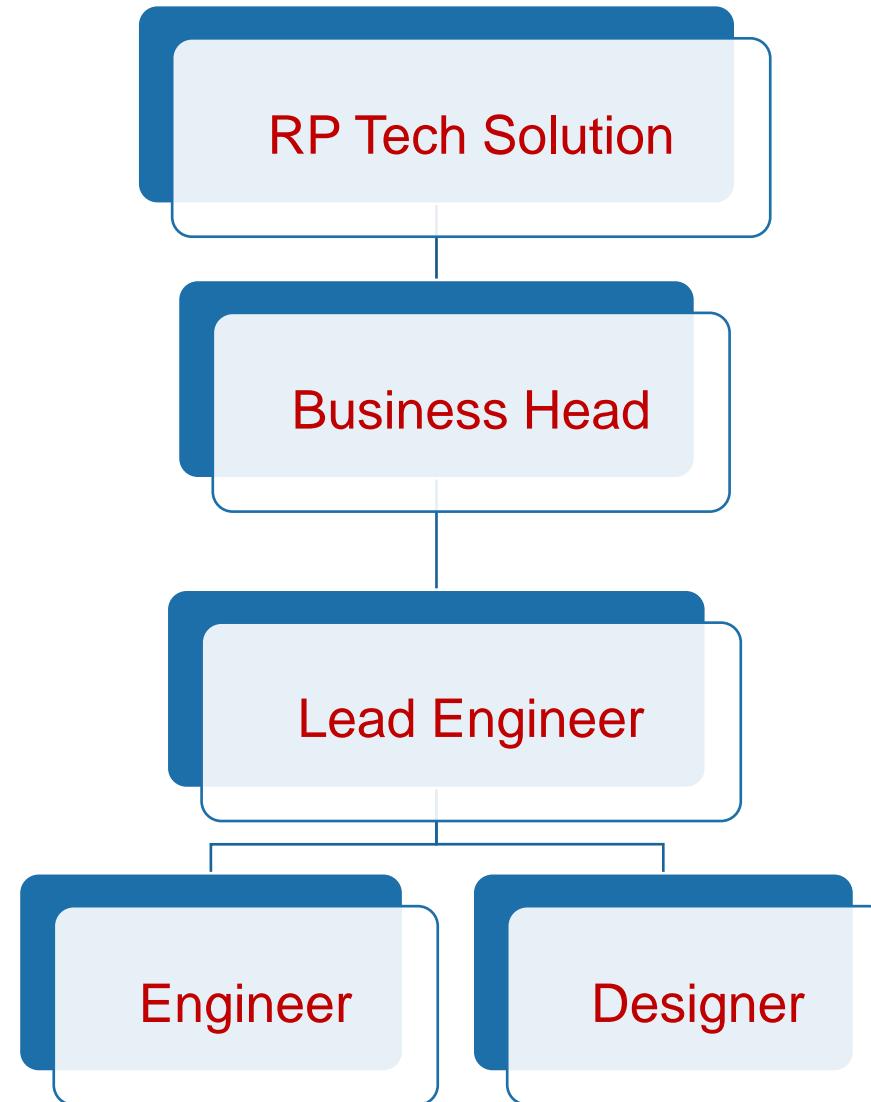
- AGA - American Gas Association
- ANSI/ASME - American National Standards Institute/American Society of Mechanical Engineers
- API - American Petroleum Institute
- ASTM - American Society for Tests and Materials
- DIN Standards
- IEC - International Electrotechnical Commission
- ISA - Instrumentation System and Automation Society
- ISO - International Organization for Standardization
- NACE - National Association of Corrosion Engineers
- NEFA - National Fire Protection Association
- NEMA - National Electrical Manufacturers Association
- Shell DEP, GASCO/TAKREER DGS, Borouge Specification, ExxonMobil, SOC, BGC, EIL, PDIL Standards.

## SOFTWARE CAPABILITIES

- AUTOCAD / Micro Station
- Control Valve, Safety Valve, Thermowell, Flow orifice sizing software
- InstuCalc
- AUTOCAD
- Navisworks
- Smart Plant Instrumentation (InTools)
- PLC Programming & SCADA Development



# ORGANOGRAM



# LEADERSHIP

## Mr. Kalpesh Prajapati – Business Head

### B.E. Instrumentation & Control

#### Experience:

- Having 22 years of Experience in the field of Instrumentation & control for Oil & Gas, Refinery, LNG, Petrochemical, Chemical, Steel, Off-shore industries.
- Hands on experience of various Control Systems, SCADA systems, PLC, DCS, Fire & Gas, ESD systems & Bentley Nevada VMS.
- Skilled in Instrumentation Basic and Detail Engineering, Control System Design, sizing calculation, Instrument specification, Data sheet & material requisition, Technical Bid Analysis, Vendor data review, 3D model review.

#### Worked in Reputed Companies like:

- Coen Bharat Ltd, Vadodara, India
- Petrofac Engineering India Ltd, Mumbai, India
- Kentz Engineers & Constructors, Abu Dhabi, UAE
- Hazira LNG Ltd (Shell & TOTAL JV Group) Surat, India
- Sinopec International Petroleum Corporation Service, Abu Dhabi, UAE
- Una E&C Pte Ltd, Dubai, UAE
- SNC Lavalin, Dubai, UAE
- L&T Chiyoda Ltd, Vadodara, India
- L&T Technology Services Ltd, Vadodara, India

